

Listing of Claims:

- 1 – 20. (Canceled).
21. (New): A device for assisting a patient in promoting the expectoration of secretions from the lungs, said device comprising:
 - a main unit including:
 - a microcontroller so configured as to generate digital electrical signals having a frequency in a range of about 30 Hertz to about 120 Hertz;
 - a user interface for adjusting the frequency of said digital electrical signals;
 - a Digital to Analog Converter for converting said digital electrical signals into analog signals
 - an adjustable amplifier so configured as to amplify said analog signals in a range of about 10 Watts to about 50 Watts;
 - a treatment interface operatively connected to the main unit, including:
 - an acoustic transducer for converting said amplified analog signal into acoustic waves; and
 - an acoustic coupling chamber coupled to said acoustic transducer, said acoustic coupling chamber creating an enclosed gap between said acoustic transducer and an overlaying skin surface of a patient when said treatment interface is applied to a chest cavity of the patient.
22. (New): A device as defined in claim 21, wherein said microcontroller is so configured as to generate digital electrical signals having frequency in a range of about 30 Hertz to about 70 Hertz.
23. (New): A device as defined in claim 21, wherein said microcontroller is so configured as to generate digital electrical signals which are sinusoidal.

24. (New): A device as defined in claim 21, wherein said microcontroller is so configured as to generate digital electrical signals which are pulses having duration of 0.5 seconds at a repetition of once every second.
25. (New): A device as defined in claim 21, wherein said microcontroller is so configured as to generate digital electrical signals having amplitude in a range of about 10 Watts to about 50 Watts.
26. (New): A device as defined in claim 21, wherein said enclosed air gap is in a range of about 1 to 2 inches.
27. (New): A device as defined in claim 21, wherein said acoustic coupling chamber is detachably coupled to said acoustic transducer.
28. (New): A device as defined in claim 21, wherein said acoustic coupling chamber is composed of a sterilizable material.
29. (New): A device as defined in claim 21, wherein said acoustic transducer has a diameter in a range of about 3 to 6 inches.
30. (New): A device as defined in claim 21, wherein said user interface is a keypad.
31. (New): A device as defined in claim 21, further comprising a display unit operatively connected to said microcontroller.
32. (New): A device as defined in claim 31, wherein said display unit is a LCD.

33. (New): A device as defined in claim 21, further comprising a memory unit operatively connected to the microcontroller, wherein said microcontroller is further configured so as to store historical data into said memory unit.
34. (New): A device as defined in claim 21, further comprising an Input/Output operatively connected to said microcontroller, wherein said microcontroller is further configured so as to control said Input/Output to transfer historical data to another device.
35. (New): A device for assisting a patient in promoting the expectoration of secretions from the lungs, said device comprising:
 - a main unit including:
 - an adjustable frequency generator so configured as to generate electrical signals having a frequency in a range of about 30 Hertz to about 120 Hertz;
 - an adjustable amplifier so configured as to amplify said electrical signals in a range of about 10 Watts to about 50 Watts;
 - a treatment interface operatively connected to the main unit, including:
 - an acoustic transducer for converting said amplified electrical signals into acoustic waves; and
 - an acoustic coupling chamber coupled to said acoustic transducer, said acoustic coupling chamber creating an enclosed air gap between said acoustic transducer and an overlaying skin surface of a patient when said treatment interface is applied to a chest cavity of the patient.
36. (New): A device as defined in claim 35, wherein said adjustable frequency generator is so configured as to generate electrical signals having frequency in a range of about 30 Hertz to about 70 Hertz.

37. (New): A device as defined in claim 35, wherein said adjustable frequency generator is so configured as to generate electrical signals which are sinusoidal.
38. (New): A device as defined in claim 35, wherein said adjustable frequency generator is so configured as to generate electrical signals which are pulses having duration of 0.5 seconds at a repetition of once every second.
39. (New): A device as defined in claim 35, wherein said adjustable frequency generator is so configured as to generate electrical signals having amplitude in a range of about 10 Watts to about 50 Watts.
40. (New): A device as defined in claim 35, wherein said enclosed air gap is in a range of about 1 to 2 inches.
41. (New): A device as defined in claim 35, wherein said acoustic coupling chamber is detachably coupled to said acoustic transducer.
42. (New): The device as defined in claim 35, wherein said acoustic coupling chamber is composed of a sterilizable material.
43. (New): The device as defined in claim 35, wherein said acoustic transducer has a diameter in a range of about 3 to 6 inches.